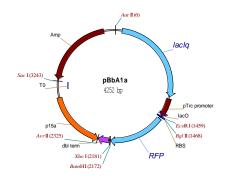
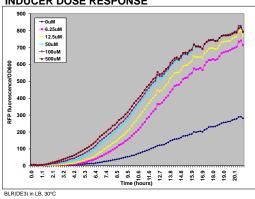
IPTG inducible promoter system

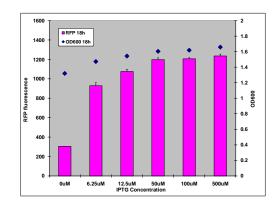
Constructs available	Freezer location (-80)
pBbA1a-RFP	2478
pBbA1k-RFP	2484
pBbA1c-RFP	2491

A = p15A ori (8-10 copies per cell) 1 = pTrc experiments represented on this datasheet were performed using pBbA1a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

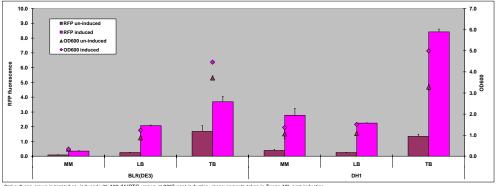








STRAIN and MEDIA DEPENDENCE



3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerd RFP and DO normalized to peBScas.RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE DEDDESSION

CATABOLITE REPRESSION								
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction								
	I.B.	L D* : 40/ elucado	NANA.	MAN - 40/ mlusana	TD	TD*: 49/ elucase		
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose		
pBbA1a induced	100.0% (+/-2.3)	67.5% (+/-2.3)	100.0% (+/-24.6)	40.9% (+/-12.1)	100.0% (+/-2.6)	86.2% (+/-6.0)		
pBbA1a un-induced	14.3% (+/-0.2)	3.4% (+/-1.0)	24.6% (+/-0.0)	12.1% (+/-0.0)	83.3% (+/-31.3)	14.2% (+/-1.8)		
	*100mM potassium phosphate I	ouffered, pH 7.5						
	,							

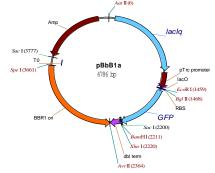
CINOSSIALIN					
RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE1a construct					
		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)	
	IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)	+Propionate(20mM)	Un-induced
pTrc	100.0% (+/-2.6	112.0% (+/-5.5)	103.3% (+/-0.6)	100.3% (+/-3.7)	25.4% (+/-1.5)
p	1001070 (17 210	112.070 (17 0.0)	100.070 (17 0.0)	100.070 (17 0.17)	20.470 (17 1.07

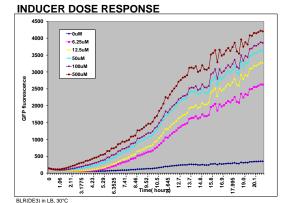
IPTG inducible promoter system

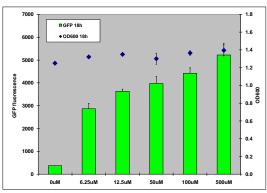
Constructs available	Freezer location (-80)
pBbB1a-GFP	2629
pBbB1k-GFP	2637
pBbB1c-GFP	2645

B = BBR1 ori (17-20 copies per cell) 1 = pTrc

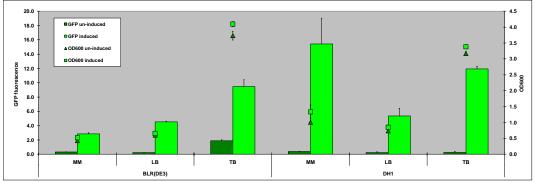
experiments represented on this datasheet were performed using pBbB1a-GFP pBbE5a-GFP in BLR(DE3) in LB induced (100mM IPTG) was used as control











3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucosa, TB media is supplemented with 2% glycerol GFP and D0 normalized to gb85ca-GFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction							
pBbB1a induced	LB	LB*+1%glucose 74.7% (+/-1.7)	MM 100.0% (+/-9.9)	MM+1%glucose 122.0% (+/-8.2)	TB 100.0% (+/-8.4)	TB*+1%glucose 200.9% (+/-9.6)	
pBbB1a un-induced	5.5% (+/-0.4) *100mM potassium phosphate	3.2% (0.2)					

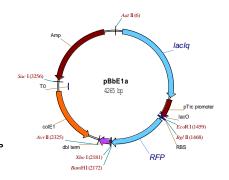
L	RUSSTALK					
RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE1a construct						
			· •			
			IPTG(100uM)	IPTG(100uM)	IPTG(100uM)	
	IPTG((100uM)	+aTc(400nM)		+Propionate(20mM)	Un-induced
	pTrc	100.0% (+/-2.6)	112.0% (+/-5.5)	103.3% (+/-0.6)	100.3% (+/-3.7)	25.4% (+/-1.5)

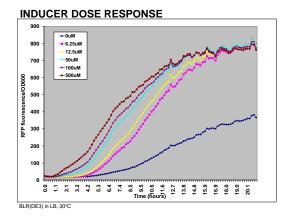
IPTG inducible promoter system

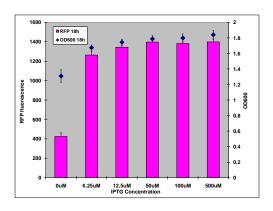
Constructs available	Freezer location (-80)
pBbE1a-RFP	2469
pBbE1k-RFP	2497
pBbE1c-RFP	2502

E = colE1 ori (20-30 copies per cell) 1 = pTrc

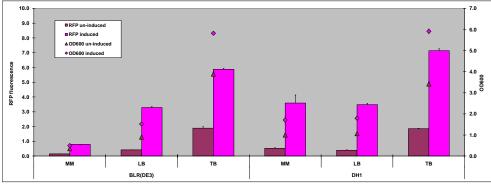
experiments represented on this datasheet were performed using pBbE1a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



ami cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, 15 media is supplemented with 2% glycerol RFP and D0 normalized to pBbEs-APFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction 6glucose TB 64.2% (+/-12.1) 100.0% (+/-2.8) TB*+1%glucose 78.5% (+/-1.0) pBbE1a induced 100.0% (+/-0.8) 82.2% (+/-1.9) 100.0% (+/-25.4) 18.1% (+/-1.2) 4.8% (+/-0.2) *100mM potassium phosphate buffered, pH 7.5 pBbE1a un-induced 25.4% (+/-0.0)

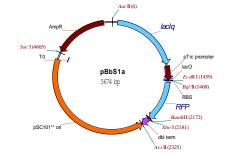
	CROSSTALK				
RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE1a construct					
		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)	
	IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)	+Propionate(20mM)	Un-induced
pTrc	100.0% (+/-2.6)	112.0% (+/-5.5)	103.3% (+/-0.6)	100.3% (+/-3.7)	25.4% (+/-1.5)

IPTG inducible promoter system

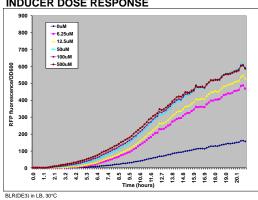
Constructs available	Freezer location (-80)
pBbS1a-RFP	2548
pBbS1k-RFP	2556
pBbS1c-RFP	2564

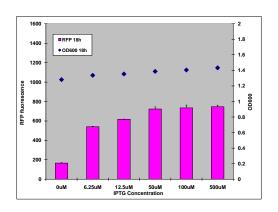
S = SC101 ori (4-6 copies per cell) 1 = pTrc

experiments represented on this datasheet were performed using pBbS1a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

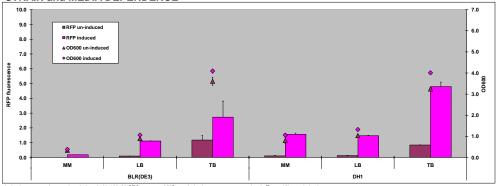








STRAIN and MEDIA DEPENDENCE



3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and D0 normalized to pBbEsca-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

RFP/OD600 in BLR(DE3) as a percentage of induc	ed without glucose,	18h post-induction			
	LB	LB*+1%glucose	мм	MM+1%glucose	тв	TB*+1%glucose
pBbS1a induced	100.0% (+/-1.9)	59.2% (+/-12.3)	100.0% (+/-3.1)	45.4% (+/-1.0)	100.0% (+/-10.8)	58.3% (+/-7.2)
pBbS1a un-induced	6.2% (0.5)	1.5% (+/-0.4)	3.1% (+/-0.0)	1.0% (+/-0.0)	63.0% (18.5)	11.8% (+/-1.5)
*100mM potassium phosphate buffered, pH 7.5						

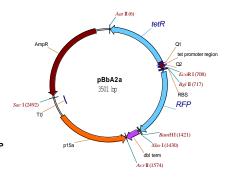
-	CRUSSTALK				
RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE1a construct					
ı	,,,,,,,,,,,,,,,,				
ı					
ı					
ı		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)	
		-T-(400-14)	+Arabinose(20mM)	+Propionate(20mM)	Un-induced
Ш	IPTG(100uM)	+aTc(400nM)	+Arabinose(Zumivi)	+Propionate(Zumwi)	Uli-illuuceu
	pTrc 100.0% (+/-2.6				25.4% (+/-1.5)
ı					

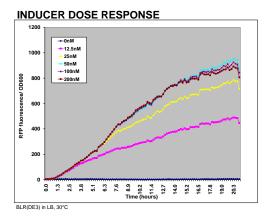
Anhydrotetracycline inducible promoter system

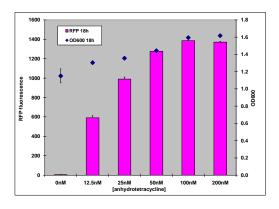
Constructs available	Freezer location (-80)
pBbA2a-RFP	2479
pBbA2k-RFP	2485
pBbA2c-RFP	2492

A = p15A ori (8-10 copies per cell) 2 = pTet

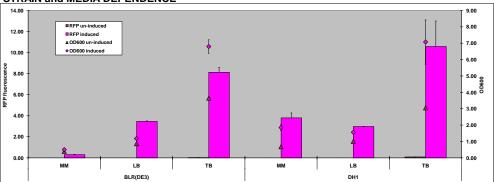
experiments represented on this datasheet were performed using pBbA2a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



3ml cultures grown in test tubes, induced with 400nM anhydrotetracycline (aTc), grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% gluces, T8 media is supplemented with 2% glycerol RPP and OD normalized to pb85csAPP in BLRDCeS) in IB Induced (100MI MPTG).

CATABOLITE REPRESSION

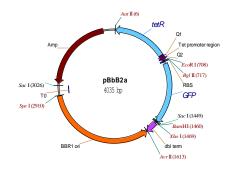
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction								
		LB*+1%glucose	мм	MM+1%glucose	тв	TB*+1%glucose		
pBbA2a induced	100.0% (+/-3.0)	85.7% (+/-4.3)	100.0% (+/-22.3)	111.1% (+/-12.8)	100.0% (+/-4.7)	101.5% (+/-2.9)		
pBbA2a un-induced	0.0% (+/-0.0)	0.0% (+/-0.0)	0.0% (+/-0.0)	0.0% (+/-0.0)	0.7% (+/-0.2)	0.7% (+/-0.3)		
	*100mM potassium phosphate buffered, pH 7.5							

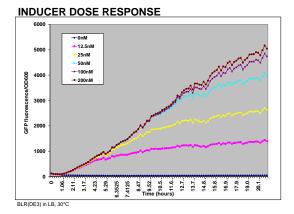
CRUSSI							
RFP/OD600 in	BLR(DE3)	in LB, 18h p	ost-induction	, pBbE2a construct			
				aTc(400nM)	aTc(400nM)	aTc(400nM)	
		aTc(400nM)		+IPTG(100úM)	+Arabinose(20mM)	+Propionate(20mM)	Un-induced
	pTet		100.0% (+/-4.3)	101.0% (+/-1.3)	86.6% (+/-0.8)	91.3% (+/-1.7)	0.0% (+/-0.0)
	-						

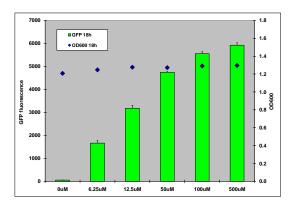
Anhydrotetracycline inducible promoter system

Constructs available	Freezer location (-80)
pBbB2a-GFP	2630
pBbB2k-GFP	2638
pBbB2c-GFP	2646

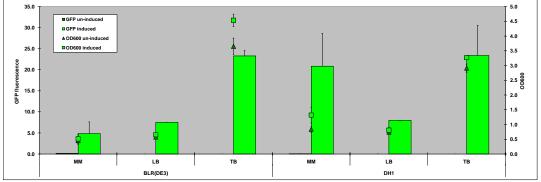
B = BBR1 ori (17-20 copies per cell) 2 = pTet experiments represented on this datasheet were performed using pBbB2a-GFP pBbE5a-GFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



3ml cultures grown in test tubes, induced with 400nM arhydrotetracycline (aTc), grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, T8 media is supplemented with 2% glycerol GFP and OD normalized to pelbesca-GFP in BLRIDGES) in IB Induced (100MI PTC).

CATABOLITE REPRESSION

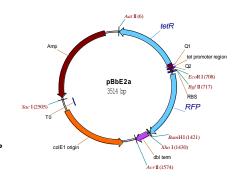
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction							
	LB	LB*+1%glucose	мм	MM+1%glucose	ТВ	TB*+1%glucose	
pBbB2a induced	100.0% (+/-1.6)	134.4% (+/-16.0)	100.0% (+/-24.3)	129.7% (+/-27.3)	100.0% (+/-2.1)	181.0% (+/-20.1)	
BbB2a un-induced	0.0% (+/-0.0)	1.4% (+/-0.0)	3.3% (+/-0.3)	2.4% (+/-0.5)	0.0% (+/-0.0)	0.4% (+/-0.3)	
	*100mM potassium phosphate buffered, pH 7.5						

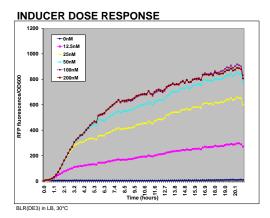
_	CROSSTALK					
F	RFP/OD600 in BLR(DE3) in LB, 18h post-induction	on, pBbE2a construct				
	` ' ' '	•				
		-T-(400-18)	-T-(400-14)	-T-(400-15)		
		aTc(400nM)	aTc(400nM)	aTc(400nM)		
	aTc(400nM)	+IPTG(100uM)	+Arabinose(20mM)	+Propionate(20mM)	Un-induced	
	aTc(400nM) pTet 100.0% (+/-4.3				0.0% (+/-0.0)	

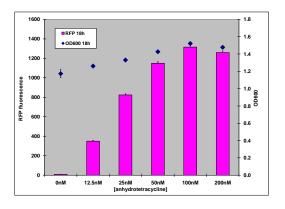
Anhydrotetracycline inducible promoter system

Constructs available	Freezer location (-80)
pBbE2a-RFP	2471
pBbE2k-RFP	2498
pBbE2cRFP	2501

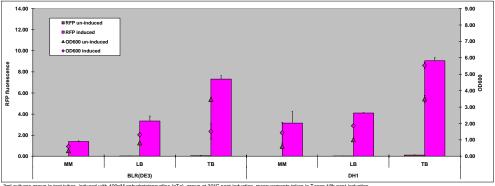
E = colE1 ori (20-30 copies per cell) 2 = pTet experiments represented on this datasheet were performed using pBbE2a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



Am cultures grown in test tubes, induced with 400nM anhydrotetracycline (aTc), grown at 30°C post-induction, measurements taken in Tecan 18h post-induction
MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol
RFP and OD normalized to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)

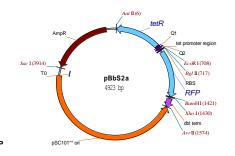
CATABOLITE REPRESSION RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction								
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose		
pBbE2a induced	100.0% (+/- 1.5)	79.5% (+/-2.4)	100.0% (+/- 4.7)	107.0% (+/-14.9)	100.0% (+/- 27.3)	110.7% (+/-5.9)		
pBbE2a un-induced	0.0% (+/- 0.0)	0.2% (+/-0.3)	0.0% (+/- 0.0)	0.0% (+/-0.0)	0.3% (+/- 0.2)	0.2% (+/-0.1)		
*100mM potassium phosphate buffered, pH 7.5								

	aTc(400nM) +IPTG(100úM) +Arabinose(20mM) +Propionate(20mM) Un-induced	RFP/OD600 in BLR(DE3)	RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE2a construct					
aTc(400nM) +IPTG(100úM) +Arabinose(20mM) +Propionate(20mM) Un-induced	aTc(400nM) +IPTG(100úM) +Arabinose(20mM) +Pròpionate(20mM) Un-induced				aTc(400nM)	aTc(400nM)	aTc(400nM)	
pTet 100.0% (+/-4.3) 101.0% (+/-1.3) 86.6% (+/-0.8) 91.3% (+/-1.7) 0.0% (+/-0.0)	pTet 100.0% (+/-4.3) 101.0% (+/-1.3) 86.6% (+/-0.8) 91.3% (+/-1.7) 0.0% (+/-0.0)	<u>.</u>	aTc(400nM)					Un-induced
		pTet		100.0% (+/-4.3)	101.0% (+/-1.3)	86.6% (+/-0.8)	91.3% (+/-1.7)	0.0% (+/-0.0)

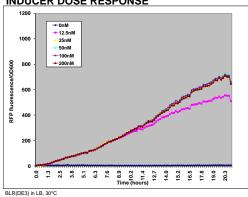
Anhydrotetracycline inducible promoter system

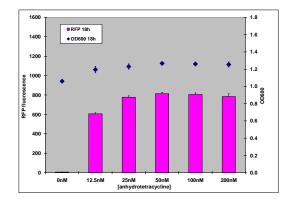
Constructs available	Freezer location (-80)
pBbS2a-RFP	2549
pBbS2k-RFP	2557
pBbS2c-RFP	2565

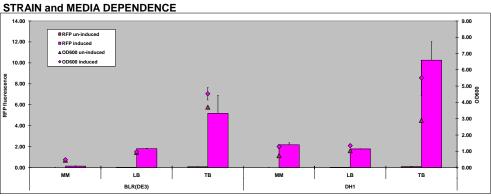
S = SC101 ori (4-6 copies per cell) 2 = pTet experiments represented on this datasheet were performed using pBbS2a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control











3ml cultures grown in test tubes, induced with 400nM arhydrotetracycline (aTc), grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% gluces, T8 media is supplemented with 2% glycerol RFP and OD normalized to pBB6548-RFP in BLRDG53 in BE induced (100MI PTG).

CATABOLITE REPRESSION

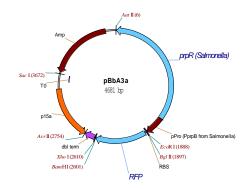
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction							
pBbS2a induced	LB 100. % (+/-1.3)	LB*+1%glucose 70.7% (+/-1.7)		MM+1%glucose 106.3% (+/-25.9)	TB 100.0% (+/-26.8)	TB*+1%glucose 83.9% (+/-3.7)	
pBbS2a un-induced	0.0% (+/-0.0) *100mM potassium phosphate		0.0% (+/-0.0)	0.0% (0.0)	1.9% (+/-0.3)	1.1% (0.6)	

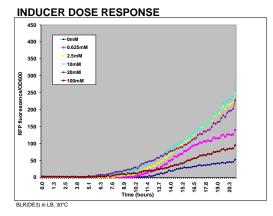
CRUSSTALK					
RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE2a construct					
` ' ' '	••				
	aTc(400nM)	aTc(400nM)	aTc(400nM)		
			+Propionate(20mM)	Un-induced	
pTet 100.0% (+/-4.3)	101.0% (+/-1.3)	86.6% (+/-0.8)	91.3% (+/-1.7)	0.0% (+/-0.0)	

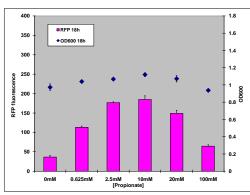
Propionate inducible promoter system

Constructs available	Freezer location (-80)
pBbA3a-RFP	2508
pBbA3k-RFP	2509
pBbA3c-RFP	2510

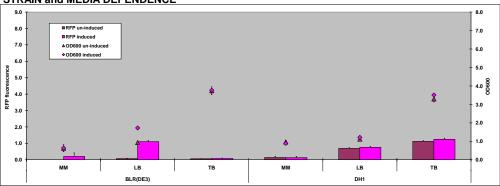
A = p15A ori (8-10 copies per cell) 3 = pProS experiments represented on this datasheet were performed using pBbA3a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



Am cultures grown in test tubes, induced with 20mM propionate, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and 0D normalized to p8bE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

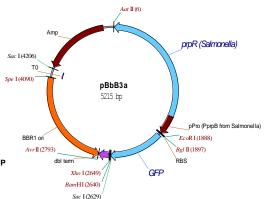
RFP/OD600 in BLR(DE3) as a percentage of induc	ed without glucose, 18	3h post-induction			
	LB	LB*+1%glucose	мм	MM+1%glucose	тв	TB*+1%glucose
pBbA3a induced	100.0% (+/-17.9)	11.5% (+/-0.8)	100.0% (+/-85.2)	68.5% (75.7)	N/A**	N/A**
BbA3a un-induced	16.1% (+/-4.0)	0.0% (+/-0.0)	0.0% (+/-0.0)	0.0% (+/-0.0)	N/A**	N/A**
	*100mM potassium phosphate buffered, pH 7.5					
	**no RFP expression detected					

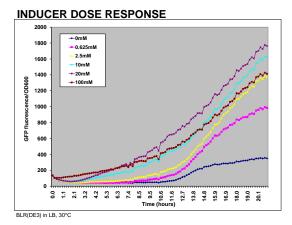
	Propionate(20mM) Propionate(20mM) Propionate(20mM) Propionate(20mM) +HPTG(100uM) +ATc(400nM) +Arabinose(20mM) Un-induced		ROSTALK					
Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced	Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced	RFP/OD600 in BLR(DE3)	in LB, 18h post-induction	n, pBbE3a construct				
Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced	Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced							
Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced	Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced							
Propionate(20mM) +IPTG(100uM) +ATc(400nM) +ATabinose(20mM) Un-induced	Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced			Propionate(20mM)	Propionate(20mM)	Propionate(20mM)		
							Un induced	
PProS 100.0% (+/-3.9) 100.9% (+/-5.1) 126.7% (+/-0.5) 33.8% (+/-3.1) 2.2% (+/-1.9	PPTOS 100.0% (+/-3.9) 100.9% (+/-5.1) 126.7% (+/-0.5) 33.8% (+/-3.1) 2.2% (+/-1.9)							
							2.2% (+/-1.9)	

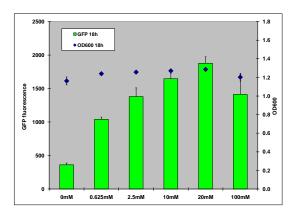
Propionate inducible promoter system

Constructs available	Freezer location (-80)
pBbB3a-GFP	2631
pBbB3k-GFP	2639
pBbB3c-GFP	2647

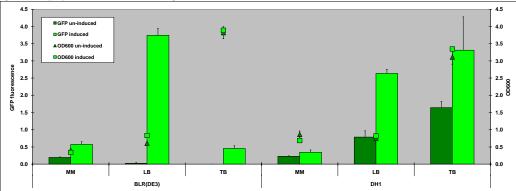
B = BBR1 ori (17-20 copies per cell) 3 = pProS experiments represented on this datasheet were performed using pBbB3a-GFP pBbE5a-GFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



am cultures grown in test tubes, induced with 20mM propionate, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol GFP and OD normalized to p8bE5a-GFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

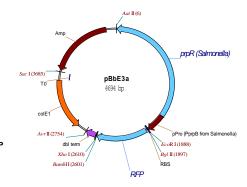
CATABOLITER	LI ILLUGIOIA							
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction								
• • • • • • • • • • • • • • • • • • • •	,							
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose		
pBbB3a induced	100.0% (+/-3.8)	5.8% (+/-2.6)	100.0% (+/-20.3)	74.6% (+/-18.8)	100.0% (+/-16.7)	18.0% (+/-13.3)		
pBbB3a un-induced	0.8% (+/- 0.8)	2.4% (+/-0.5)	28.7% (+/- 3.3)	21.6% (+/-0.8)	0.0% (+/- 0.0)	12.5% (+/-10.8)		
*100mM potassium phosphate buffered, pH 7.5								
	roomin potacoram pricopriate	bandroa, pri rio						

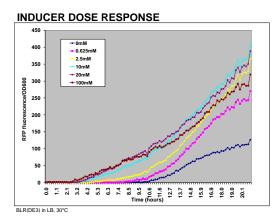
- 6	CROSSIALK	in ID 40h maat industia	Db F2			
Ш	REPRODUCTION BLR(DE3)	in LB, 18h post-induction	n, pBbE3a construct			
Ш						
ı						
ı			Propionate(20mM)	Propionate(20mM)	Propionate(20mM)	
ı		Propionate(20mM)	+IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)	Un-induced
ı	pProS	100.0% (+/-3.9)	100.9% (+/-5.1)	126.7% (+/-0.5)	33.8% (+/-3.1)	2.2% (+/-1.9)
Ш						

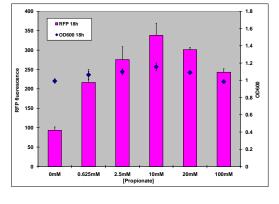
Propionate inducible promoter system

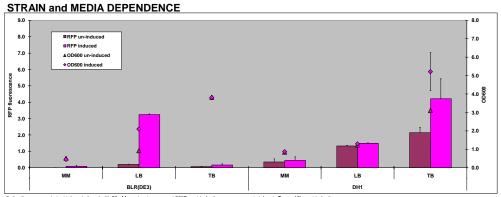
Constructs available	Freezer location (-80)
pBbE3a-RFP	2473
pBbE3k-RFP	2511
pBbF3c-RFP	2512

E = colE1 ori (20-30 copies per cell) 3 = pProS experiments represented on this datasheet were performed using pBbE3a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control









3rd cultures grown in test tubes, induced with 20mM propionate, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.3% glucces. TB media is supplemented with 25% glycerol RPP and DD normalized to pb85cs.APP in BLR(DBS) in LB induced (100MM IPTG)

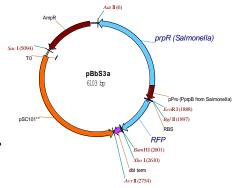
CATABOLITE REPRESSION								
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction								
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose		
pBbE3a induced	100.0% (5.4)	21.0% (+/-2.2)	100.0% (+/-68.3)	42.5% (54.9)	N/A**	N/A**		
pBbE3a un-induced	16.3% (+/-0.4)	0.4% (+/-0.6)	0.0% (+/-0.0)	3.4% (+/-5.9)	N/A**	N/A**		
	*100mM potassium phosphate buffered, pH 7.5							
	**no RFP expression detected							

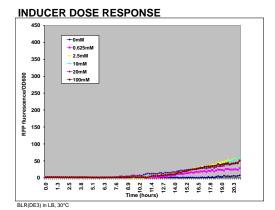
	RFP/OD600 in BLR(DE3) in LB, 18h post-induc	RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE3a construct					
Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced							
Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced		Dranianata(20mM)	Dranianata/20mM)	Dranianata(20mM)			
	Propionate(20mM)				Un-induced		

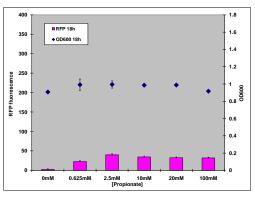
Propionate inducible promoter system

Constructs available	Freezer location (-80)
pBbS3a-RFP	2552
pBbS3k-RFP	2560
pBbS3c-RFP	2568

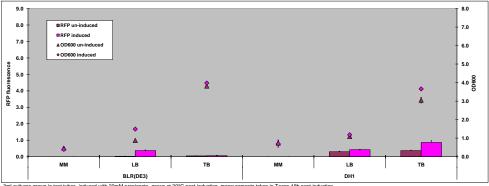
S = SC101 ori (4-6 copies per cell) 3 = pProS experiments represented on this datasheet were performed using pBbS3a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control











and cultures grown in test tubes, induced with 20mM propionate, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and OD normalized to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE DEDDESSION

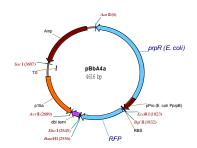
ac a norcentage of indu										
as a percentage of indu	ced without glucose,	RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction								
, ,	•	•								
LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose					
100.0% (+/-4.3)	0.0% (+/-0.0)	N/A**	N/A**	N/A**	N/A**					
2.2% (+/-3.7)	1.4% (+/-2.4)	N/A**	N/A**	N/A**	N/A**					
*100mM potassium phosphate buffered, pH 7.5										
**no RFP expression detected										
	2.2% (+/-3.7) *100mM potassium phosphate	100.0% (+/-4.3) 0.0% (+/-0.0) 2.2% (+/-3.7) 1.4% (+/-2.4)	100.0% (+/-4.3) 0.0% (+/-0.0) N/A** 2.2% (+/-3.7) 1.4% (+/-2.4) N/A** *100mM potassium phosphate buffered, pH 7.5	100.0% (+/-4.3) 0.0% (+/-0.0) N/A** N/A** 2.2% (+/-3.7) 1.4% (+/-2.4) N/A** N/A** *100mM potassium phosphate buffered, pH 7.5	100.0% (+/-4.3) 0.0% (+/-0.0) N/A** N/A** N/A** 2.2% (+/-3.7) 1.4% (+/-2.4) N/A** N/A** *100mM potassium phosphate buffered, pH 7.5					

RUSSTALK					
RFP/OD600 in BLR(DE3) in LB, 18h post-inducti	on, pBbE3a construct	t		
	•				
		Propionate(20mM)	Propionate(20mM)	Propionate(20mM)	
	Propionate(20mM)	+IPTG(100uM)		+Arabinose(20mM)	Un-induced
pProS					
prios	100.0 % (+/-3.9)	100.5 /8 (+/-5.1)	120.7 /8 (+7-0.3)	33.8 /8 (+/-3.1)	2.2 /8 (+/-1.9)

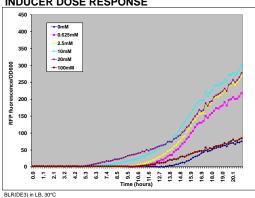
Propionate inducible promoter system

Constructs available	Freezer location (-80)
pBbA4a-RFP	2503
pBbA4k-RFP	2504
pBbA4c-RFP	2505

A = p15A ori (8-10 copies per cell) 4 = pProE experiments represented on this datasheet were performed using pBbA4a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

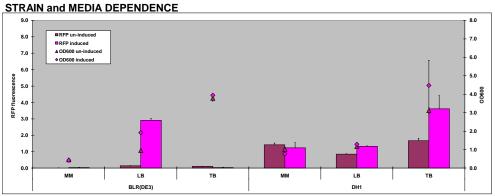


INDUCER DOSE RESPONSE



400 ■RFP 18h ♦ OD600 18h 350 300 250 1 0800 200 RFP 1 150 0.6 0.4 0.2 0mM 0.625mM 2.5mM 10mM [Propionate] 20mM 100mM





am cultures grown in test tubes, induced with 20mM propionate, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucces, TB media is supplemented with 2% giverol RFP and OD normalized to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATADOLITE DEDDECCION

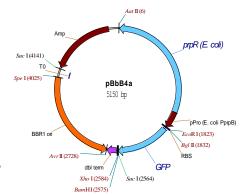
CATABOLITE REPRESSION									
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction									
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose			
pBbA4a induced	100.0% (+/-10.2)	0.0% (+/-0.0)	100.0% (+/-71.1)	72.9% (+/-67.1)	N/A**	N/A**			
pBbA4a un-induced	23.9% (+/-0.9)	0.0% (+/-0.0)	21.0% (+/-18.2)	20.0% (+/-17.4)	N/A**	N/A**			
	*100mM potassium phosphate buffered, pH 7.5								
	**no RFP expression detected								

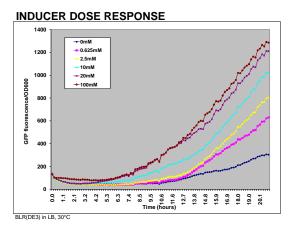
	RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE4a construct							
			Propionate(20mM)		Propionate(20mM)			
١		Propionate(20mM)	+IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)	Un-induced		
	pProE	100.0% (+/-1.2)	98.8% (+/-5.1)	139.4% (+/-3.7)	20.9% (+/-0.7)	7.9% (+/-1.4)		
- 1								

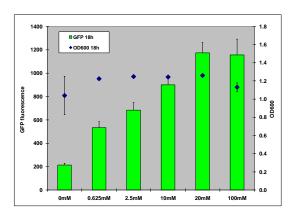
Propionate inducible promoter system

Constructs available	Freezer location (-80)
pBbB4a-GFP	2632
pBbB4k-GFP	2640
pBbB4c-GFP	2648

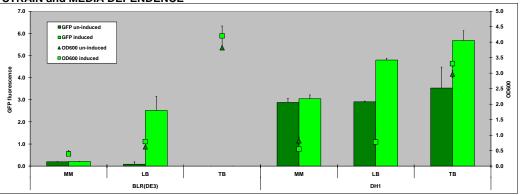
B = BBR1 ori (17-20 copies per cell) 4 = pProE experiments represented on this datasheet were performed using pBbB4a-GFP pBbE5a-GFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



aml cultures grown in test tubes, induced with 20mM propionate, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol GFP and OD normalized to pBbE5a-GFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

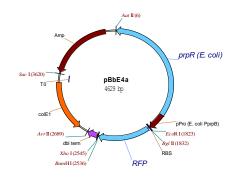
RFP/OD600 in BLR(DE	3) as a percentage of indu	ced without glucose,	18h post-induction				
	LB	LB*+1%glucose	ММ	MM+1%glucose	тв	TB*+1%glucose	
BbB4a induced	100.0% (+/-26.2)	2.9% (+/-1.1)	100.0% (+/-17.9)	91.3% (+/-5.9)	N/A**	N/A**	
BbB4a un-induced	4.2% (+/-5.2)	3.0% (+/-0.9)	83.4% (+/-7.2)	75.0% (+/-6.7)	N/A**	N/A**	
*100mM potassium phosphate buffered, pH 7.5							
	**no GFP expression detected						

		FP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE4a construct								
		Propionate(20mM)	Propionate(20mM)	Propionate(20mM)						
	Propionate(20mM)			+Arabinose(20mM)	Un-induced					
pProE	100.0% (+/-1.2)	98.8% (+/-5.1)	139.4% (+/-3.7)	20.9% (+/-0.7)	7.9% (+/-1.4)					

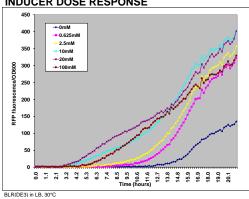
Propionate inducible promoter system

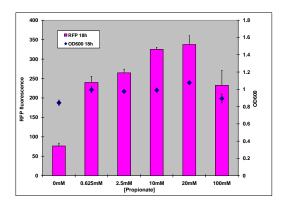
Constructs available	Freezer location (-80)
pBbE4a-RFP	2472
pBbE4k-RFP	2506
pBbE4c-RFP	2507

E = colE1 ori (20-30 copies per cell) 4 = pProE experiments represented on this datasheet were performed using pBbE4a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

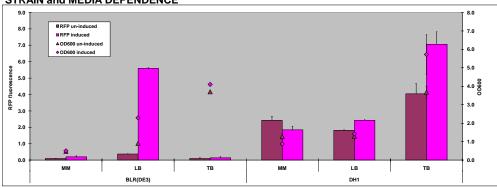


INDUCER DOSE RESPONSE





STRAIN and MEDIA DEPENDENCE



and cultures grown in test tubes, induced with 20mM propionate, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and OD normalized to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE DEDDESSION

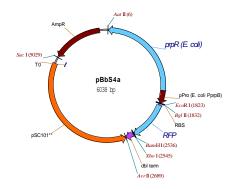
CATABOLITE REPRESSION									
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction									
	LB	LB*+1%alucose	ММ	MM+1%alucose	тв	TB*+1%alucose			
pBbE4a induced	100.0% (+/-11.0)	2.2% (+/-0.4)	100.0% (+/- 32.4)	83.0% (+/-19.5)	N/A**	N/A**			
pBbE4a un-induced	25.8% (+/-1.3)	0.0% (+/-0.0)	51.2% (+/- 7.8)	46.6% (+/-7.8)	N/A**	N/A**			
	*100mM potassium phosphate buffered, pH 7.5								
	**no RFP expression detected								

	Propionate(20mM) +IPTG(100uM) +aTc(400nM) +Arabinose(20mM) Un-induced	RFP/OD600 in BLR(DE3)	in LB, 18h post-ind	luction, pBbE4a construct			
				Propionate(20mM)	Propionate(20mM)	Propionate(20mM)	
pProE 100.0% (+/-1.2) 98.8% (+/-5.1) 139.4% (+/-3.7) 20.9% (+/-0.7) 7.9% (+/-1.4)	pProE 100.0% (+/-1.2) 98.8% (+/-5.1) 139.4% (+/-3.7) 20.9% (+/-0.7) 7.9% (+/-1.4)		Propionate(20mM)	+IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)	Un-induced
		pProE	100.0% (-	+/-1.2) 98.8% (+/-5.1)	139.4% (+/-3.7)	20.9% (+/-0.7)	7.9% (+/-1.4)

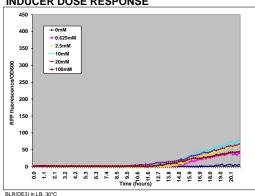
Propionate inducible promoter system

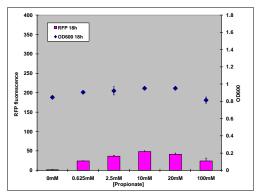
Constructs available	Freezer location (-80)
pBbS4a-RFP	2551
pBbS4k-RFP	2559
pBbS4c-RFP	2567

S = SC101 ori (4-6 copies per cell) 4 = pProE experiments represented on this datasheet were performed using pBbS4a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

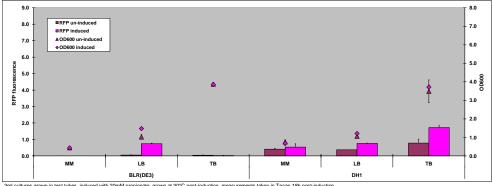


INDUCER DOSE RESPONSE





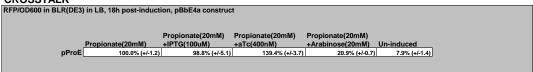
STRAIN and MEDIA DEPENDENCE



and cultures grown in test tubes, induced with 20mM projonatle, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and OD normalized to pBbEsa-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATADOLITE DEDDECCION

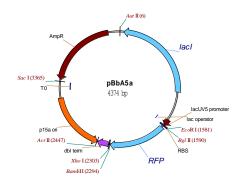
CATABOLITE REPRESSION										
RFP/OD600 in BLR(DE3	3) as a percentage of ind	uced without glucose	, 18h post-induction							
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose				
pBbS4a induced	100.0% (+/-9.0)	0.0% (+/-0.0)	N/A**	N/A**	N/A**	N/A**				
pBbS4a un-induced	7.0% (6.1)	0.0% (+/-0.0)	N/A**	N/A**	N/A**	N/A**				
	*100mM potassium phosphate buffered, pH 7.5									
	**no RFP expression detected									

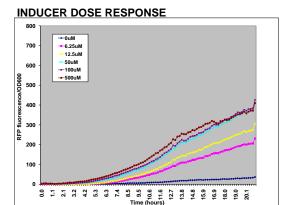


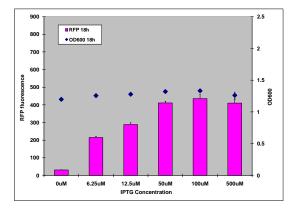
IPTG inducible promoter system

Constructs available	Freezer location (-80)
pBbA5a-RFP	2475
pBbA5k-RFP	2481
pBbA5c-RFP	2488

A = p15A ori (8-10 copies per cell) 5 = placUV5 experiments represented on this datasheet were performed using pBbA5a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

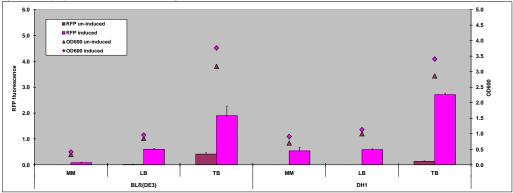






STRAIN and MEDIA DEPENDENCE

BLR(DE3) in LB, 30°C



I.

3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and OD normalized to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

CATABOLITE REPRESSION									
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction									
	LB	LB*+1%alucose	ММ	MM+1%alucose	тв	TB*+1%alucose			
	LD	LD +1%glucose	IVIIVI	wiwi+1%glucose	ID	ID +1%glucose			
pBbA5a induced	100.0% (+/-2.6)	37.1% (+/-3.6)	100.0% (+/-0.0)	43.6% (+/-0.0)	100.0% (+/-12.6)	56.3% (+/-6.0)			
pBbA5a un-induced	2.4% (+/-1.1)	1.1% (+/-0.0)	0.0% (+/-0.0)	0.0% (+/-0.0)	30.5% (+/-10.8)	2.8% (+/-0.0)			
*100mM potassium phosphate buffered. pH 7.5									

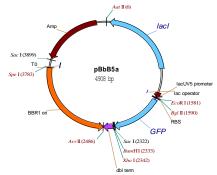
CRUSSTALK						
RFP/OD600 in BLR(DE3) ir	LB, 18h post-inductio	n, pBbE5a construct				
		•				
		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)		
				+Propionate(20mM)	Un-induced	
placUV5	100.0% (+/-6.7)	141.3% (+/-6.7)	97.8% (+/-2.8)	128.0% (+/-9.7)	0.0% (+/-0.0)	

IPTG inducible promoter system

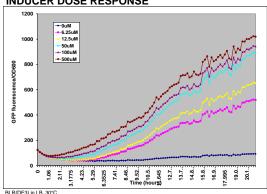
Constructs available	Freezer location (-80)
pBbB5a-GFP	2633
pBbB5k-GFP	2641
pBbB5c-GFP	2649

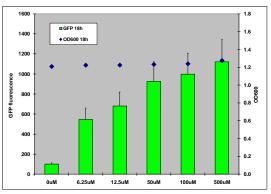
B = BBR1 ori (17-20 copies per cell) 5 = placUV5

experiments represented on this datasheet were performed using pBbB5a-GFP pBbE5a-GFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

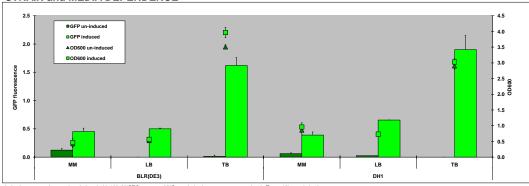


INDUCER DOSE RESPONSE





STRAIN and MEDIA DEPENDENCE



3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucosa, TB media is supplemented with 2% glycerol GPF and 00 normalized to p8b85a-GPF in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

RFP/OD600 in BLR(DE3) as a percentage of indu	ed without glucose,	18h post-induction				
pBbB5a induced	LB 100.0% (+/- 1.8)	LB*+1%glucose 89.5% (+/-10.3)	MM 100.0% (+/- 44.7)	MM+1%glucose 99.5% (+/-47.2)	TB 100.0% (+/- 63.8)	TB*+1%glucose	
pBbB5a un-induced	0.0% (+/- 0.0)	8.7% (+/-1.5)					
	*100mM potassium phosphate	buffered, pH 7.5					

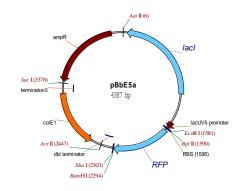
CRUSSTALK
RFP/OD600 in BLR(DE3) in LB, 18h post-induction, pBbE5a construct
IPTG(100uM) IPTG(100uM) IPTG(100uM)
IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced
placUV5 100.0% (+/-6.7) 141.3% (+/-6.7) 97.8% (+/-2.8) 128.0% (+/-9.7) 0.0% (+/-0.0)

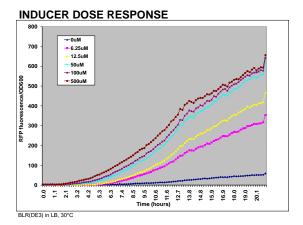
IPTG inducible promoter system

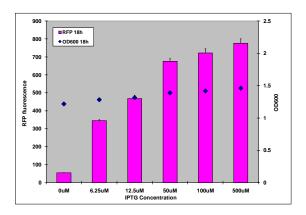
Constructs available	Freezer location (-80)
pBbE5a-RFP	2467
pBbE5k-RFP	2494
pBbE5c-RFP	2466

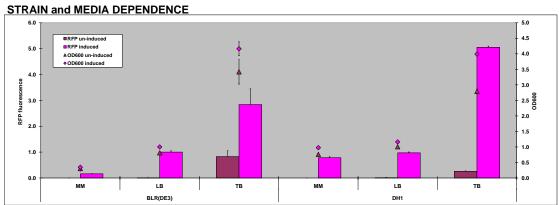
E = CoIE1 ori (20-30 copies per cell) 5 = placUV5

experiments represented on this datasheet were performed using pBbE5a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control









aml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and OD normalized to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

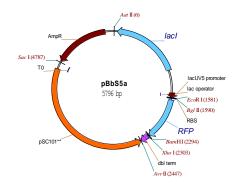
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction								
	LB	LB*+1%glucose	мм	MM+1%glucose	тв	TB*+1%glucose		
pBbE5a induced	100.0% (+/- 6.0)	48.7% (+/-3.5)	100.0% (+/- 0.0)	28.4% (+/-0.0)	100.0% (+/- 4.9)	69.8% (+/-5.3)		
pBbE5a un-induced	1.1% (+/- 1.2)	0.7% (+/-0.0)	0.0% (+/- 0.0)	0.0% (+/-0.0)	35.5% (+/- 8.7)	4.0% (+/-1.6)		
	*100mM potassium phosphate	buffered, pH 7.5						

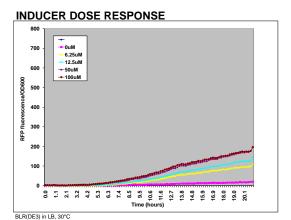
RFP/OD600 in BLR(DE3)) in LB, 18h post-inductio	n, pBbE5a construc	t		
	IPTG(100uM)	IPTG(100uM) +aTc(400nM)		IPTG(100uM) +Propionate(20mM)	Un-induced
placUV5	100.0% (+/-6.7)	141.3% (+/-6.7)	97.8% (+/-2.8)	128.0% (+/-9.7)	0.0% (+/-0.0)

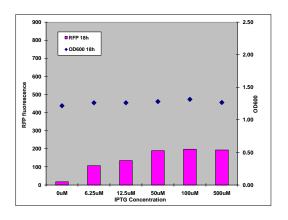
IPTG inducible promoter system

Constructs available	Freezer location (-80)
pBbS5a-RFP	2474
pBbS5k-RFP	2553
pBbS5c-RFP	2561

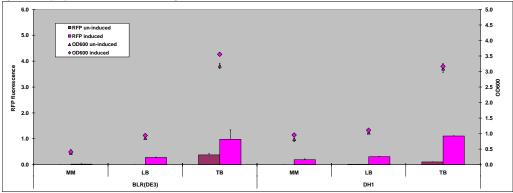
S = SC101 ori (4-6 copies per cell) 5 = placUV5 experiments represented on this datasheet were performed using pBbS5a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



aml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and DO normalized to pibleSea-RFP in BLR(DES) in LB induced (100uM IPTG).

CATABOLITE REPRESSION

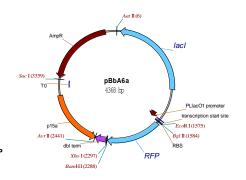
CATABOLITER	LFKLSSION					
RFP/OD600 in BLR(DE3) as a percentage of indu	ced without alucose	. 18h post-induction			
, ,	,		,			
	LB	L D*: 40/ -l		MAN - 40/	TD	TD+: 40/
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose
pBbS5a induced	100. % (+/-8.0)	31.4% (+/-2.7)	N/A**	N/A**	100.0% (+/-6.1)	70.3% (+/-12.4)
pBbS5a un-induced	2.5% (+/-2.2)	2.4% (0.0)	N/A**	N/A**	41.1% (+/-3.5)	4.2% (2.1)
*100mM potassium phosphate buffered, pH 7.5						
	**no RFP fluorescence detec	ted				

RFP/OD600 in BLR(DE3) i	LR(DE3) in LB, 18h post-induction, pBbE5a construct IPTG(100uM) IPTG(100uM) IPTG(100uM) +Arabinose(20mM) +Propionate(20mM) Un-induced				
		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)	
					Un induced
		14.0(1001111)			
placUV5					0.0% (+/-0.0)
placUV5					
placUV5					

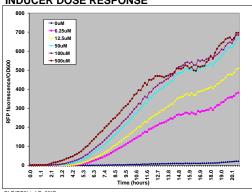
IPTG inducible promoter system

Constructs available	Freezer location (-80)
pBbA6a-RFP	2476
pBbA6k-RFP	2482
pBbA6c-RFP	2489

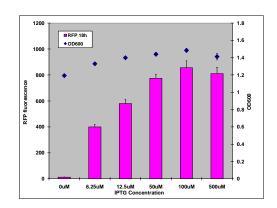
A = p15A ori (8-10 copies per cell) 6 = pLlacO-1 experiments represented on this datasheet were performed using pBbA6a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control



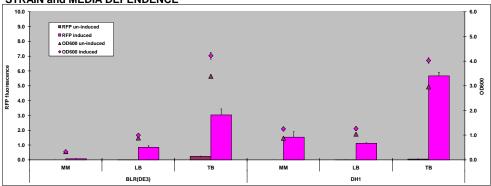




BLR(DE3) in LB, 30°C



STRAIN and MEDIA DEPENDENCE



3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glucerol RFP and OD normalized to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE DEDDESSION

CATABOLITE	REPRESSION						
RFP/OD600 in BLR(DE	3) as a percentage of ind	uced without alucose	e. 18h post-induction				
•	.,		,				
	LB	LB*+1%glucose	MM	MM+1%glucose	ТВ	TB*+1%glucose	
pBbA6a induced	100.0% (+/-0.4	25.0% (+/-13.3)	100.0% (+/-0.0)	38.9% (+/-0.0)	100.0% (+/-28.6)	47.8% (+/-7.5)	
pBbA6a un-induced	1.4% (+/-0.0	0.8% (+/-0.0)	0.0% (+/-0.0)	0.0% (+/-0.0)	9.9% (+/-0.7)	1.4% (+/-0.7)	
*100mM potassium hosphate buffered. DH 7.5							

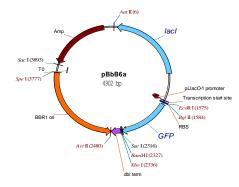
RFP/OD600 in BLR(DE3)	in LB, 18h post-indu	ction, pBbE6a constru	ct		
		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)	
	IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)		Un-induced
pLlacO-1	100.0% (+/-3	.8) 138.5% (+/-0.9)	84.1% (+/-5.4)	138.7% (+/-5.1)	0.0% (+/-0.0)

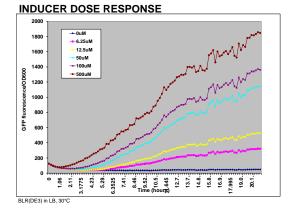
IPTG inducible promoter system

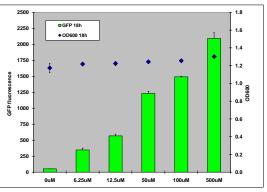
Constructs available	Freezer location (-80)
pBbB6a-GFP	2634
pBbB6k-GFP	2642
pBbB6c-GFP	2650

B = BBR1 ori (17-20 copies per cell) 6 = pLlacO-1

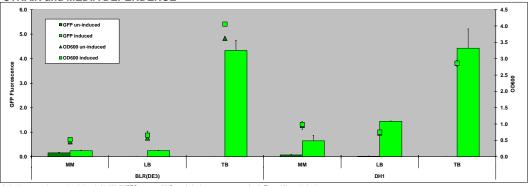
experiments represented on this datasheet were performed using pBbB6a-GFP pBbE5a-GFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucosa, TB media is supplemented with 2% glycerol GPF and D0 normalized to pb85ca GPF in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

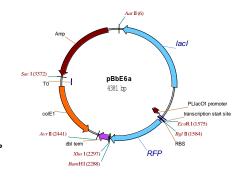
RFP/OD600 in BLR(DE3) as a percentage of indu	ced without glucose,	, 18h post-induction				
	LB	LB*+1%glucose	мм	MM+1%glucose	тв	TB*+1%glucose	
pBbB6a induced	100.0% (+/-16.4)	68.3% (+/-6.0)	100.0% (+/-9.3)	114.2% (+/-12.0)	100.0% (+/-9.5)	161.2% (+/-4.1)	
pBbB6a un-induced	0.0% (+/-0.0)	20.5% (+/-11.3)	75.0% (+/-16.4)	67.2% (+/-15.9)	0.0% (+/-0.0)	0.7% (+/-0.6)	
*100mM potassium phosphate buffered, pH 7.5							

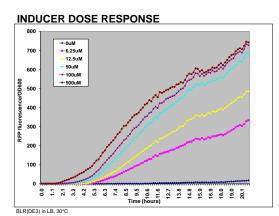
IPTG(100uM) IPTG(100uM) IPTG(100uM) IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced		IPTG(100uM) IPTG(100uM) IPTG(100uM) IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	CRUSSTALK				
IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	RFP/OD600 in BLR(DE3) in LB, 18h post-induction	n, pBbE6a construct	t		
IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	, , , ,				
IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced					
IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)	
			IPTG/100uM)				Un-induced
	DE18CO-1 100.0 /(47-5.0) 136.3 /(47-0.3) 04.1 /(47-5.4) 136.7 /(47-5.1) 0.0 /(47-0.0)	א מ.ט. (אייט.די) מי היא מי					

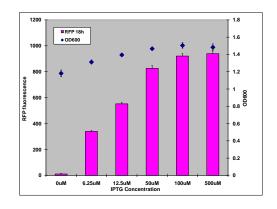
IPTG inducible promoter system

Constructs available	Freezer location (-80)
pBbE6a-RFP	2468
pBbE6k-RFP	2495
pBbE6c-RFP	2465

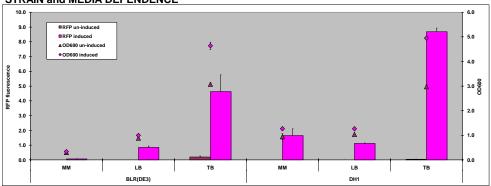
E = colE1 ori (20-30 copies per cell) 6 = pLlacO-1 experiments represented on this datasheet were performed using pBbE6a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



and cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and OD normalized to pBbESa-RFP in BLR(DE3) in LB induced (100uM IPTG)

CATABOLITE REPRESSION

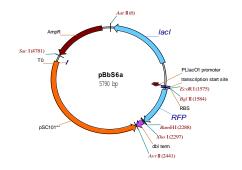
CATABOLITE R	REPRESSION							
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction								
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose		
pBbE6a induced	100.0% (+/-9.2)	19.2% (1.7)	100.0% (+/-0.0)	33.6% (+/-0.0)	100.0% (+/-19.9)	51.7% (11.3)		
pBbE6a un-induced	1.5% (+/-0.1)	1.0% (+/-0.1)	0.0% (+/-0.0)	0.0% (+/-0.0)	6.0% (+/-2.0)	0.3% (+/-0.6)		
*100mM potassium phosphate buffered, pH 7.5								

IPTG(100uM)	RFP/OD600 in BLR(DE3) in LB, 18h post-ind	uction, pBbE6a construc	t .	
	IPTG(100uM)			 Un-induced

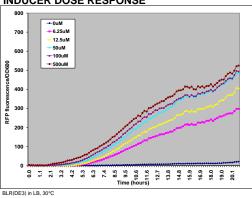
IPTG inducible promoter system

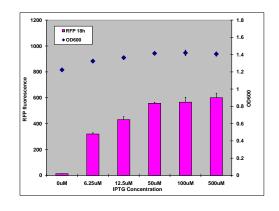
Constructs available	Freezer location (-80)
pBbS6a-RFP	2546
pBbS6k-RFP	2554
pBbS6c-RFP	2562

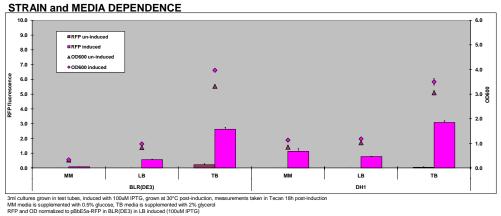
S = SC101 ori (4-6 copies per cell) 6 = pLlacO-1 experiments represented on this datasheet were performed using pBbS6a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control











CATABOI ITE DEDDESSION

CATABOLITER	EPRESSION							
RFP/OD600 in BLR(DE3) as a percentage of induc	ed without glucose,	18h post-induction					
•	, ,		•					
	LB	LB*+1%glucose	MM	MM+1%glucose	ТВ	TB*+1%glucose		
pBbS6a induced	100.0% (+/-37.3)	23.3% (+/-4.5)	100.0% (+/-0.0)	26.6% (+/-0.0)	100.0% (+/-18.0)	54.1% (+/-7.9)		
pBbS6a un-induced	2.2% (+/-0.0)	1.4% (+/-0.0)	0.0% (+/-0.0)	0.0% (+/-0.0)	10.2% (+/-2.5)	1.6% (+/-0.4)		
	*100mM potassium phosphate buffered, pH 7.5							

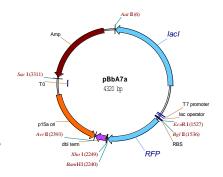
RFP/OD600 in BLR(DE3)	in LB, 18h post-induction	n. pBbE6a construct			
	,,,,,	, p======			
í					
		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)	
	IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)	+Propionate(20mM)	Un-induced
pLlacO-1					
pLlacO-1					
pLlacO-1					0.0% (+/-0.0)

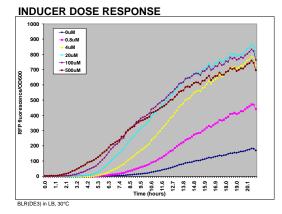
IPTG inducible promoter system

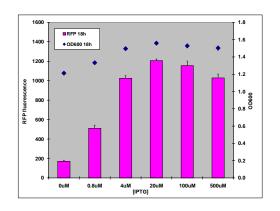
Constructs available	Freezer location (-80)
pBbA7a-RFP	2477
pBbA7k-RFP	2483
pBbA7c-RFP	2490

A = p15A ori (8-10 copies per cell) 7 = pT7

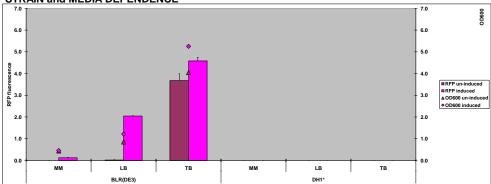
experiments represented on this datasheet were performed using pBbA7a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



and cultures grown in test tubes, induced with 100M IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-in MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and D0 normalized to pb85cs.AFP in BLR[DGS] in LB induced (100M IPTG)

"DH1 does not contain the gene encoding T7 polymerase and therefore RFP cannot be expressed under the T7 promoter in DH1, experiments were

CATABOLITE DEDDESSION

CATABOLITER	REPRESSION								
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction									
, , , ,									
	LB	LB*+1%glucose	MM	MM+1%glucose	тв	TB*+1%glucose			
pBbA7a induced	100.0% (+/-1.3)	56.6% (+/-0.6)	100.0% (+/-0.0)	41.0% (+/-0.0)	100.0% (+/-19.2)	91.6% (+/-6.8)			
pBbA7a un-induced	0.2% (+/-0.3)	0.4% (+/-0.0)	0.0% (+/-0.0)	0.0% (+/-0.0)	119.2% (+/-23.0)	2.1% (+/-0.4)			
*100mM potassium phosphate buffered, pH 7.5									

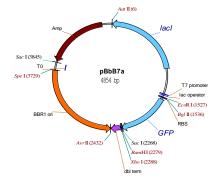
CRUSSTALK							
RFP/OD600 in BLR(DE3)	in LB, 18h post-induct	ion, pBbE7a construc	t				
•							
		IPTG(100uM)	IPTG(100uM)	IPTG(100uM)			
	IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)	+Propionate(20mM)	Un-induced		
pT7	100.0% (+/-3.2	2) 103.8% (+/-4.9)	87.6% (+/-0.3)	101.0% (+/-0.6)	0.4% (+/-0.7)		
•							

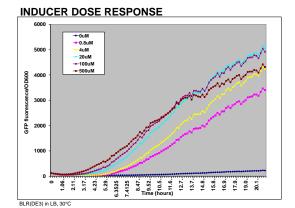
IPTG inducible promoter system

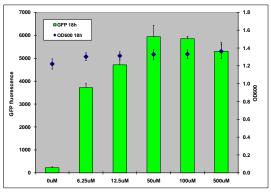
Constructs available	Freezer location (-80)
pBbB7a-GFP	2635
pBbB7k-GFP	2643
pBbB7c-GFP	2651

B = BBR1 ori (17-20 copies per cell) 7 = pT7

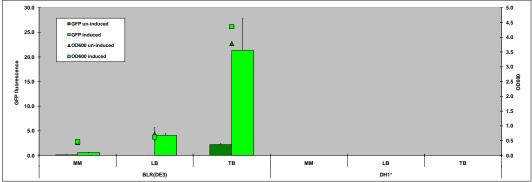
experiments represented on this datasheet were performed using pBbB7a-GFP pBbE5a-GFP in BLR(DE3) in LB induced (100mM IPTG) was used as control







STRAIN and MEDIA DEPENDENCE



ami cultures grown in test tubes, induced with 100 M IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, T8 media is supplemented with 2% glycerol GFP and D0 normalized to pB85c4 GFP in BLR(DE3) in L8 induced (100 M IPTG)

'DH1 does not contain the gene encoding T7 polymerase and therefore RFP cannot be expressed under the T7 promoter in DH1, experiments were not performed

CATABOLITE REPRESSION

RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction									
pBbB7a induced	LB 100.0% (+/-9.0)	LB*+1%glucose 54.9% (1.7)	MM 100.0% (+/-17.4)	MM+1%glucose 122.8% (28.4)	TB 100.0% (+/-30.3)	TB*+1%glucose 97.4% (10.3)			
pBbB7a un-induced	0.0% (+/-0.0)	1.1% (+/-0.5)	23.6% (+/-5.6)	16.3% (+/-6.5)	11.8% (+/-1.2)	0.9% (+/-0.2)			
	*100mM potassium phosphate	buffered, pH 7.5							

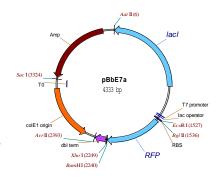
CRUSSTALK								
RFP/OD600 in BLR(DE3)) in LB, 18h post-induction	n, pBbE7a construct	t					
•	· · · · · · ·							
			IPTG(100uM)	IPTG(100uM)				
	IPTG(100uM)	+aTc(400nM)	+Arabinose(20mM)	+Propionate(20mM)	Un-induced			
pT7	100.0% (+/-3.2)	103.8% (+/-4.9)	87.6% (+/-0.3)	101.0% (+/-0.6)	0.4% (+/-0.7)			
рТ7	100.0% (+/-3.2)	103.8% (+/-4.9)	87.6% (+/-0.3)	101.0% (+/-0.6)	0.4% (+/-0.7)			
рТ7	100.0% (+/-3.2)	103.8% (+/-4.9)	87.6% (+/-0.3)	101.0% (+/-0.6)	0.4% (+/-0.7)			

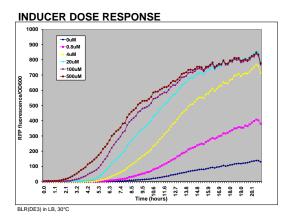
IPTG inducible promoter system

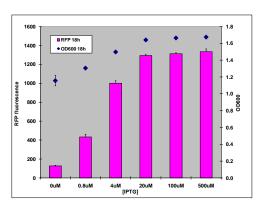
Constructs available	Freezer location (-80)
pBbE7a-RFP	2487
pBbE7k-RFP	2496
pBbE7c-RFP	2464

E = colE1 ori (20-30 copies per cell) 7 = pT7

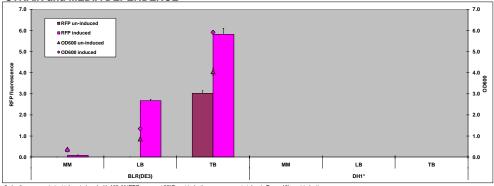
experiments represented on this datasheet were performed using pBbE7a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control





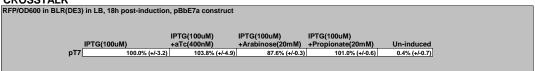






3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and DO normalized to pbB65ca RFP in BLR[DG2] in LB induced (1000M IPTG) "OH1 does not contain the gene encoding T7 polymerase and therefore RFP cannot be expressed under the T7 promoter in DH1, experiments were not perform

CATABOLITE REPRESSION
RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction LB*+1%glucose 53.4% (+/-7.3) TB*+1%glucose 91.2% (+/-7.1) pBbE7a induced pBbE7a un-induced 21.3% (+/-0.0) 100.0% (6.9) 0.0% (+/-0.0) 110.3% (+/-14.0) 100.0% (+/-0.0) 100.0% (0.8) 0.4% (+/-0.3) 0.4% (+/-0.0) um phosphate buffered, pH 7.5

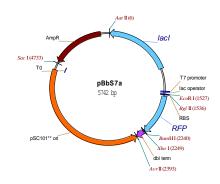


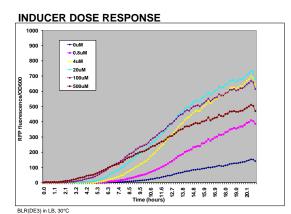
IPTG inducible promoter system

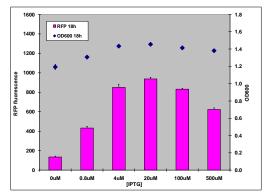
Constructs available	Freezer location (-80)
pBbS7a-RFP	2547
pBbS7k-RFP	2555
pBbS7c-RFP	2563

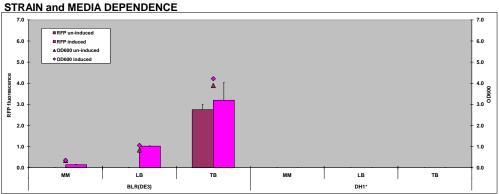
S = SC101 ori (4-6 copies per cell) 7 = pT7

experiments represented on this datasheet were performed using pBbS7a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control









3ml cultures grown in test tubes, induced with 100uM IPTG, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and 0D normalized to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG) "DH10 control to pBbE5a-RFP in BLR(DE3) in LB induced (100uM IPTG)" DH10 control to perfect of the TP promoter in DH1, experiments were not per 10H10 des not contain the gene encoding 17 polymerase and therefore RFP parent be expressed under the TP promoter in DH1, experiments were not per

CATABOLITE REPRESSION

RFP/OD600 in BLR(DE3) as a percentage of induced without glucose, 18h post-induction
 glucose
 TB
 TB*+1%glucose

 40.2% (+/-0.0)
 100.0% (+/-11.4)
 84.7% (+/-10.9)

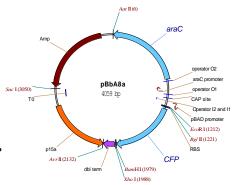
 0.0% (+/-0.0)
 155.1% (+/-19.8)
 3.5% (+/-0.8)
 LB*+1%glucose MM+1%glucose pBbS7a induced pBbS7a un-induced 100.0% (+/-1.8) 64.6% (+/-0.8) 100.0% (+/-0.0) 0.5) 0.6% (+/-0.0) te buffered, pH 7.5 0.3% (+/-0.5) 0.0% (+/-0.0)

	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	RFP/OD600 in BLR(DE3) in LB, 18h post-induction	n, pBbE7a construct			
IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	` ' ' '	••			
IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced	IPTG(100uM) +aTc(400nM) +Arabinose(20mM) +Propionate(20mM) Un-induced		IPTG/100uM)	IPTG(100uM)	IPTG(100uM)	
pT7 100.0% (+/-3.2) 103.8% (+/-4.9) 87.6% (+/-0.3) 101.0% (+/-0.6) 0.4% (+/-0.7)	pT7 100.0% (+/-3.2) 103.8% (+/-4.9) 87.6% (+/-0.3) 101.0% (+/-0.6) 0.4% (+/-0.7)	IPTG(100uM)				Un-induced
		pT7 100.0% (+/-3.:	103.8% (+/-4.9)	87.6% (+/-0.3)	101.0% (+/-0.6)	0.4% (+/-0.7)

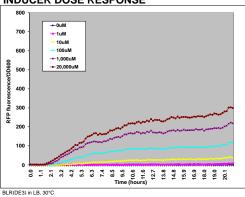
Arabinose inducible promoter system

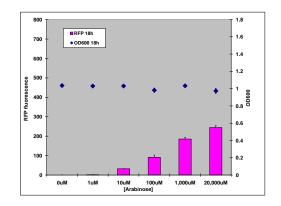
Constructs available	Freezer location (-80)
pBbA8a-RFP	2480
pBbA8k-RFP	2486
pBbA8c-RFP	2493

A = p15A ori (8-10 copies per cell) 8 = pBad experiments represented on this datasheet were performed using pBbA8a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

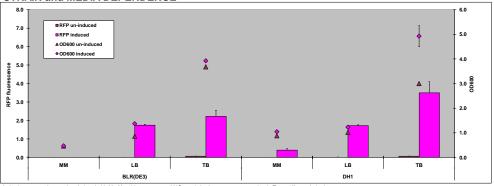


INDUCER DOSE RESPONSE





STRAIN and MEDIA DEPENDENCE



3ml cultures grown in test tubes, induced with 20mM arabinose, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, Tē media is supplemented with 25% glucord RFP and 0D normalized to gbeSEAFFI pil SL(R)GB) in LB induced (100ML PTG)

CATABOLITE REPRESSION

DEDICATION IN DI DIDES) as a percentage of induc	and without alugaca	10h nost industion				
KFF/OD000 III BEK(DE3) as a percentage of induc	eu williout glucose,	, ion post-induction				
	LB	LB*+1%glucose	мм	MM+1%alucose	тв	TB*+1%alucose	
pBbA8a induced	100.0% (+/-10.0)	58.2% (+/-0.0)	N/A**	N/A**	100.0% (+/-15.2)	90.4% (+/-4.7)	
pBbA8a un-induced	0.0% (+/-0.0)	0.0% (+/-0.0)	N/A**	N/A**	3.0% (+/-0.6)	2.3% (+/-0.5)	
	*100mM potassium phosphate	buffered, pH 7.5					
	**no RFP fluorescence detecte	1					
*100mM potassium phosphate buffered, pH 7.5 **no RFP fluorescence detected							

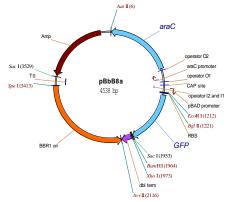
CDOSSTALK

CRUSSTALK					
RFP/OD600 in BLR(DE3)	in LB, 18h post-induction	n, pBbE8a construct	t		
		Arabinose(20mM)	Arabinose(20mM)	Arabinose(20mM)	
	Arabinose(20mM)	+IPTG(100uM)	+aTc(400nM)	+Propionate(20mM)	Un-induced
pBad	100.0% (+/-2.5)	102.7% (+/-1.0)	100.1% (+/-1.5)	112.5% (+/-2.1)	0.0% (+/-0.0)

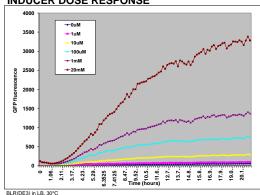
Arabinose inducible promoter system

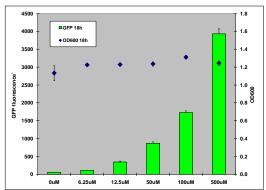
Constructs available	Freezer location (-80)
pBbB8a-GFP	2636
pBbB8k-GFP	2644
pBbB8c-GFP	2652

B = BBR1 ori (17-20 copies per cell) 8 = pBad experiments represented on this datasheet were performed using pBbB8a-GFP pBbE5a-GFP in BLR(DE3) in LB induced (100mM IPTG) was used as control

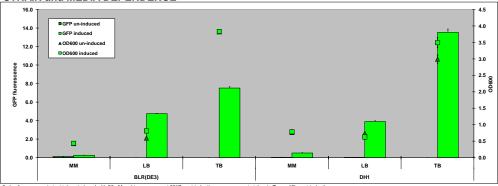








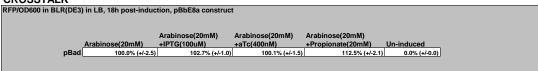
STRAIN and MEDIA DEPENDENCE



ami cultures grown in test tubes, induced with 20mM arabinose, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.3% glucose, TB media is supplemented with 2% glycerol GFP and OD normalized to pBBEs-GFP in BLR(DE3) in LB induced (100ML IPTG)

CATABOLITE REPRESSION

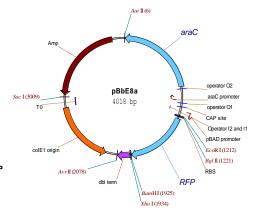
OATABOLITE IN									
RFP/OD600 in BLR(DE3) as a percentage of inc	luced without alucose.	. 18h post-induction						
, , , , , , , , , , , , , , , , , , , ,									
	LB	LB*+1%glucose	MM	MM+1%alucose	TB	TB*+1%qlucose			
					1 -				
pBbB8a induced	100.0% (+/-2.7)	88.3% (+/-0.8)	100.0% (+/-18.3)	138.0% (+/-30.9)	100.0% (+/-1.1)	166.0% (+/-22.9)			
pBbB8a un-induced	0.0% (+/-0.0)	1.1% (+/-0.0)	49.1% (+/-5.0)	38.0% (+/-3.3)	0.0% (+/-0.0)	1.2% (+/-0.6)			
pobodou un maacca			43.170 (47-3.0)	30.070 (+7-3.3)	0.078 (+7-0.0)	1.2 /0 (+/-0.0)			
	*100mM potassium phospha	ate buffered, pH 7.5							

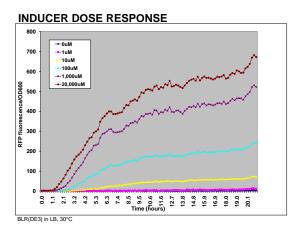


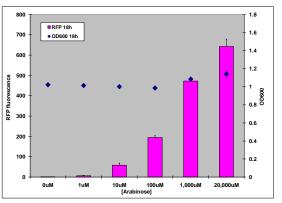
Arabinose inducible promoter system

Constructs available	Freezer location (-80)
pBbE8a-RFP	2470
pBbE8k-RFP	2499
pBbE8c-RFP	2500

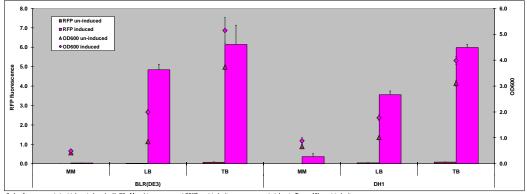
E= colE1 ori (20-30 copies per cell) 8 = pBad experiments represented on this datasheet were performed using pBbE8a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control











3ml cultures grown in test tubes, induced with 20mM arabinose, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 2% glycerol RFP and DO normalized to p8bE65.RFP in BLR(DES) in LB induced (100ML) IPTG)

CATABOLITE REPRESSION

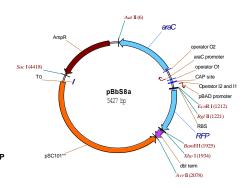
LB LB*+1%glucose MM MM+1%glucose TB pBbE8a induced 100.0% (+/-9.1) 64.8% (2.9) 100.0% (+/-6.0) 85.1% (52.8) 100.0% (+/-6.0)	
	TB*+1%glucose
	77.8% (8.9)
pBbE8a un-induced 0.2% (+/-0.4) 0.0% (+/-0.0) 0.0% (+/-0.0) 0.0% (+/-0.0) 1.7% (+/-	5) 0.9% (+/-0.5)
*100mM potassium phosphate buffered, pH 7.5	

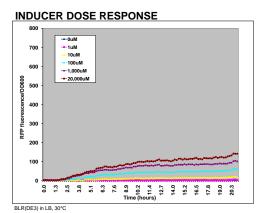
Arabinose(20mM) Arabinose(20mM) Arabinose(20mM) Arabinose(20mM) +IPTG(100uM) +aTc(400nM) +Propionate(20mM) Un-induced pBad 100.0% (+/-2.5) 102.7% (+/-1.0) 100.1% (+/-1.5) 112.5% (+/-2.1) 0.0% (+/-0.0)	RFP/OD600 in BLR(DE3)	in LB, 18h post-induc	tion, pBbE8a construc	t		
pBad 100.0% (+/-2.5) 102.7% (+/-1.0) 100.1% (+/-1.5) 112.5% (+/-2.1) 0.0% (+/-0.0)		Arabinose(20mM)				Un-induced
	pBad	100.0% (+/-2.5)	102.7% (+/-1.0)	100.1% (+/-1.5)	112.5% (+/-2.1)	0.0% (+/-0.0)

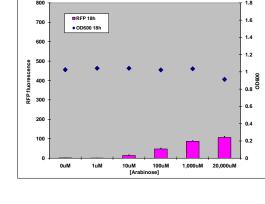
Arabinose inducible promoter system

Constructs available	Freezer location (-80)
pBbS8a-RFP	2550
pBbS8k-RFP	2558
pBbS8c-RFP	2566

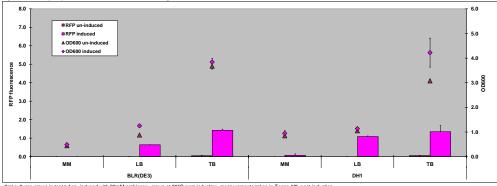
S = SC101 ori (4-6 copies per cell) 8 = pBad experiments represented on this datasheet were performed using pBbS8a-RFP pBbE5a-RFP in BLR(DE3) in LB induced (100mM IPTG) was used as control











3ml cultures grown in test tubes, induced with 20mM arabinose, grown at 30°C post-induction, measurements taken in Tecan 18h post-induction MM media is supplemented with 0.5% glucose, TB media is supplemented with 25% glycerol RFP and DO normalized to pbbESca.FFP in BLR(DES) in LB induced (DIOMI) PTG)

CATADOLITE DEDDESSION

CATABOLITE F	REPRESSION					
RFP/OD600 in BLR(DE	3) as a percentage of induc	ed without glucose,	18h post-induction			
	LB	LB*+1%glucose	MM	MM+1%glucose	TB	TB*+1%glucose
pBbS8a induced	100.0% (+/-15.4)	55.6% (+/-4.0)	N/A**	N/A**	100.0% (+/-1.4)	76.6% (+/-13.0)
pBbS8a un-induced	0.0% (+/-0.0)	0.0% (+/-0.0)	N/A**	N/A**	3.2% (+/-2.0)	4.3% (+/-1.4)
	*100mM potassium phosphate buffered, pH 7.5					
	**no RFP expression detected					

